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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,068	10/28/2003	J. Stewart Young	MSDI-1006/PC767.01	5996
52196 MEDTRONIC	7590 08/18/201	EXAMINER		
Attn: Noreen Johnson - IP Legal Department			COTRONEO, STEVEN J	
2600 Sofamor Danek Drive MEMPHIS, TN 38132			ART UNIT	PAPER NUMBER
			3733	
			MAIL DATE	DELIVERY MODE
			08/18/2010	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/695,068	YOUNG ET AL.				
Office Action Summary	Examiner	Art Unit				
	STEVEN J. COTRONEO	3733				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 M	av 2010					
	action is non-final.					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	, pane Quay, 1000 C.2 ,					
4) Claim(s) 1-5,7,8,10-18,21 and 31-38 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.						
	pinatad					
6)⊠ Claim(s) <u>1-5, 7-8, 10-18, 21and 31-38</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	coloction requirement					
o) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application				
Paper No(s)/Mail Date	6)					

## **DETAILED ACTION**

The finality of the office action dated 2/18/2010 has been withdrawn.

## Claim Rejections - 35 USC § 103

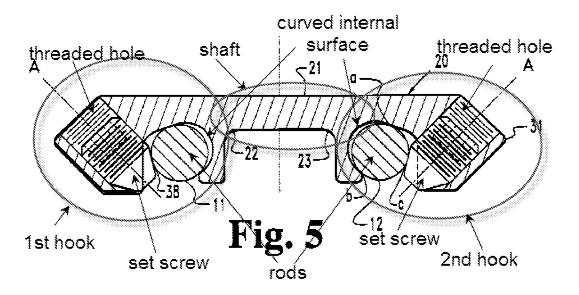
The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4, 7, 8, 10-18, 21, 31-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoeck et al. (US 6,136,003) in view of Faulkner (US 3,399,433)

Hoeck et al. discloses a vertebral support apparatus (see fig 5 below), the apparatus comprising: first and second spinal rods (fig 5, 11 and 12); a solid non-hollow shaft (fig 5, 21) the shaft is solid across the entire cross-section of the shaft and includes no internal cavity. A first hook (see fig 5 below) including a first internal surface has a curved portion, the first rod contacting the first internal surface. A second hook (see fig 5 below) including a first end unitary and integral with the shaft at a position axially displaced from the first hook, the second hook terminating at a second end spaced laterally from the shaft and comprising a second internal surface having a curved portion. The shaft includes a first threaded hole (see fig 5 below) associated with the first hook, and a set screw (fig 5, 38) extends through the first threaded hole contacting the first rod and forcing the first rod against the first internal surface. The shaft includes a second threaded hole (see fig 5 below) associated with the second

hook. The shaft defines a substantially planer plate (see fig 5 below). The apparatus is formed as one piece and is a permanent and non-adjustable.

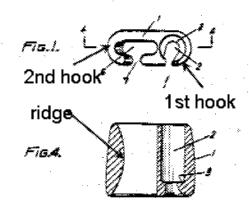


Hoeck et al. does not disclose including a ridge extending along the curved portion in a direction from the first end to the second end.

Faulkner discloses including a ridge (see fig 1 and 4 below) extending along the curved portion in a direction from the first end to the second end to allow for the opening in the hook to be large enough to easily insert the rod into the hook (col. 2, II. 10-15). The ridge (fig 4, 6) is formed as first internal surface and a second internal surface that intersect in a first and second direction oblique direction (see fig 2E below). The ridge allows for the two rod to be placed in a non-parallel arrangement (fig 6).

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It would have been obvious at the time of the invention to one of ordinary skill in the art to modify the device of Hoeck et al. with a ridge extending along the curved portion in a direction from the first end to the second end in view of Faulkner in order to allow the hook to be wide enough to allow for the rod to be inserted into the hook.

With regard to the acute and obtuse angles of the ridge Faulkner discloses the ridge is orthogonal to the first curve, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have constructed the ridge as being obtuse or acute, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Claims 3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoeck et al. (US 6,136,003) in view of Faulkner (US 3,399,433) and further in view of Lombardo (US 6,238,396).

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Hoeck et al. in view of Faulkner discloses the claimed invention except for the shaft having a round or oval cross-sectional profile and the shaft being curved. Hoeck et al. in view of Faulkner does disclose a shaft that is used to connect two hooks (fig 3, 5)

Lombardo discloses a spinal device that comprises hooks (fig. 12A) that comprises a shaft that has a round profile (fig 12A, 73) that can be either straight or curved (fig 12A-C). The shaft is used to connect two hooks.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have substituted the shaft of Hoeck et al. in view of Faulkner with any of the shafts of Lombardo in order to achieve the predictable result of connecting two hooks.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to STEVEN J. COTRONEO whose telephone number is (571)270-7388. The examiner can normally be reached on M-F 730-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. J. C./ Examiner, Art Unit 3733

/Eduardo C. Robert/ Supervisory Patent Examiner, Art Unit 3733